DATA FOR
EPA FORM R
2002

3200 Shop	Total Pounds	Chromium	Nickel	Copper	Manganese	Phosphorus	Sulfur	Silicon	Molybdenum	Iron + Trace	
T304	1,967,989	373,918	177,119		39,360	886	590	196,799		1,179,317	
T304H	58,370	11,090	5,253		1,167	26	18	5,837		34,978	
T304L	2,970,628	564,419	267,356		59,413	1,337	891	297,063		1,780,149	
T316	948,006	161,161	113,761		18,960	427	284	94,801	23,700	534,913	
T316 (.04 MIN CA	29,074	4,943	593		581	13	9	2,907	727	19,301	
T316L	4,847,161	824,017	98,882		96,943	2,181	1,454	484,716	121,179	3,217,788	
T316L (2.75% MO	88,654	15,071	1,809		1,773	40	27	8,865	2,438	58,632	
T317L	487,840	92,690	68,298		9,757	220	146	48,784	17,074	250,871	
T309S	0	0	0		0	0	0	0		0	
T310S	176	44	25		4	0	0	26		77	
T321	56,601	10,754	6,226		1,132	25	17	5,660		32,786	
T347	5,210	938	573		104	2	2	521		3,070	
HAST 276	691	138	401		7	0	0	69		76	
ALLOY 20	43	9	16		0	0	0	4		13	
OTHER HAST	15	3	9		0	0	0	2		1	
A20CB3	3,122	624	1,124	109	62	1	0	312		888	
904L	30,319	6,973	7,883		606	14	0	3,032		11,811	
INCO 600	6,395	959	4,604	32	64	3	0	639		93	
INCO 625	30,630	4,595	22,054	153	306	14	0	3,063		446	
INCO 800	3,072	461	2,212	15	31	1	0	307		45	
INCO 825	1,719	258	1,238	9	17	1	0	172		25	
NICKEL 200	0	0	0	0	0	0	0	0		0	
90-10 CUNI	522,520	78,378	376,214	2,613	5,225	235	0	52,252		7,603	
70-30 CUNI	190,188	28,528	136,935	951	1,902	86	0	19,019		2,767	
TITANIUM	329	49	237	2	3	0	0	33		5	
6061 ALUM	2,499	375	1,799	12	25	1	0	250		36	
5086 ALUM	0	0	0	0	0	0	0	0		0	
OTHER ALUM	377	57	271	2	4	0	0	38		5	
EVERDUR 655	869	130	626	4	9	0	0	87		13	
Totals For 320(	12,252,496	2,180,583	1,295,518	3,902	237,456	5,514	3,438	1,225,258	165,118	7,135,708	12,252,496

DATA FOR
EPA FORM R
2002

3405 Fab Sh Total Pounds		Chromium	Nickel	Copper	Manganese	Phosphorus	Sulfur	Silicon	Molybdenum	Iron + Trace	
T304	61,171	11,622	5,505		612	28	18	6,117		37,268	
T304H		0	0		0	0	0	0		0	
T304L	3,124,411	593,638	281,197		31,244	1,406	937	312,441		1,903,547	
T316	338,865	57,607	40,664		3,389	152	102	33,887	8,472	194,593	
T316 (.04 MIN CARBON)		0	0		0	0	0	0	0	0	
T316L	911,905	155,024	18,603		9,119	410	274	91,190	22,798	614,487	
T316L (2.75% MO	240,101	40,817	4,898		2,401	108	72	24,010	6,603	161,192	
T317L	64,013	12,163	8,962		640	29	19	6,401	2,240	33,559	
T309		0	0		0	0	0	0		0	
T310S	20,584	5,146	2,882		206	9	6	2,058		10,276	
T321		0	0		0	0	0	0		0	
T347		0	0		0	0	0	0		0	
HAST 276	8,868	1,774	5,143		89	4	0	887		971	
ALLOY 20		0	0	0	0	0	0	0		0	
OTHER HAST		0	0	0	0	0	0	0		0	
A20CB3	4,370	874	1,573	153	44	2	0	437		1,287	
904L	3,051	702	793	15	31	1	0	305		1,204	
INCO 600		0	0	0	0	0	0	0		0	
INCO 625		0	0	0	0	0	0	0		0	
INCO 800		0	0	0	0	0	0	0		0	
INCO 825		0	0	0	0	0	0	0		0	
NICKEL 200		0	0	0	0	0	0	0		0	
90-10 CUNI	13,910	2,087	10,015	70	139	6	0	1,391		202	
70-30 CUNI	532	80	383	3	5	0	0	53		8	
TITANIUM		0	0	0	0	0	0	0		0	
6061 ALUM		0	0	0	0	0	0	0		0	
5086 ALUM		0	0	0	0	0	0	0		0	
OTHER ALUM		0	0	0	0	0	0	0		0	
EVERDUR 655		0	0	0	0	0	0	0		0	
Tantalum	114	17	82	1	1	0	0	11		2	
Totals	4,791,894	881,550	380,701	241	47,919	2,156	1,428	479,189	40,112	2,958,597	4,791,894
	Total Pounds	Chromium	Nickel	Copper	Manganese	Phosphorus	Sulfur	Silicon	Molybdenum		
	17,044,391	3,062,132	1,676,219	4,143	285,375	7,670	4,866	1,704,448	205,231	10,094,306	17,044,391
Maximum Amount	2,840,732	510,355	279,370	691	47,563	1,278	811	284,075	34,205	1,682,384	
Area Affected by All Processing Methods (Approximate 1/16" strip)											
	23,061	**4,143**	**2,268**	**6**	**386**	**10**	**7**	**2,306**	**278**	**13,657**	
	% of Total Above	17.97%	9.83%	0.02%	1.67%	0.05%	0.03%	10.00%	1.20%	59.22%	100.00%

DATA FOR
EPA FORM R
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T309S	0	0	0		0	0	0	0		0	
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T321	56,601	10,754	6,226		1,132	25	17	5,660		32,786	
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HAST 276	691	138	401		7	0	0	69		76	
ALLOY 20	43	9	16		0	0	0	4		13	
OTHER HAST	15	3	9		0	0	0	2		1	
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INCO 625		0	0	0	0	0	0	0		0	
INCO 800		0	0	0	0	0	0	0		0	
INCO 825		0	0	0	0	0	0	0		0	
NICKEL 200		0	0	0	0	0	0	0		0	
90-10 CUNI	13,910	2,087	10,015	70	139	6	0	1,391		202	
70-30 CUNI	532	80	383	3	5	0	0	53		8	
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	% of Total Above	17.97%	9.83%	0.02%	1.67%	0.05%	0.03%	10.00%	1.20%	59.22%	100.00%

WORLD RESOURCES COMPANY

8113 West Sherman Street
Tolleson, Arizona 85353-4025

Tel: 602.233.9166
Fax: 623.936.9164

February 19, 2003

Mr. Gerald Thompson
Environmental Assistant
Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124-3546

Dear Mr. Thompson:

In accordance with the requirements of the Washington State Department of Ecology, World Resources Company (WRC) is happy to provide you with the following information needed to determine the exact amount of Alaskan Copper Works material recycled by WRC during the 2002 calendar year.

WRC is aware that the State of Washington requires a copy of the recycling credit documentation. In the past, Ms. Holly Sullivan at the Department of Ecology has been receptive to a copy of this letter as sufficient proof of recycling credit documentation.

The following information is provided for use in your submittal:

Total Wet Tons Received:	33.48
Average Percent Solids:	86.76
Total Dry Tons:	29.04
Total Percentage Recycled:	100% less 13.24% moisture

After consultation with WRC corporate, technical, and legal personnel, it appears that the Form Code of B306 (if lime or hydroxide is used to precipitate your metals) or B319 (other waste inorganic solids) might be appropriate choices to be used in preparing your submission. These codes are from the Washington Department of Ecology Book 2 Guidebook and Codes. Additionally, the system code of M014 (other metals recovery for reuse) would be applicable to WRC's recycling process. WRC expands on the M014 description with "thermal concentration and compounding to produce metal concentrate products via an industrial process," which best describes WRC's recyclable material management.

Please be advised that in accordance with 40 CFR 262.11, the ultimate decision as to the classification of the hazardous waste (e.g., the Form Code) rests with the generator. The views expressed by WRC herein, should not be considered as legal advice or substituted for the more accurate generator's technical knowledge or laboratory analysis of the recyclable materials and the generation process used.

If you have any questions regarding this information, please contact me at (602) 233-9166, ext. 206.

Sincerely,
WORLD RESOURCES COMPANY

Jack Fahey
Director of Environmental, Health & Safety Affairs

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YY): 01/10/2003

PRODUCER (703)471-4335 FAX (703)471-0938
Cushman Insurance Agency, Inc.
773 Station Street
Herndon, VA 20170

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE

INSURED World Resources Company
1600 Anderson Road
McLean, VA 22102

INSURER A:	Chubb Insurance Company
INSURER B:	Gulf Insurance Company
INSURER C:	Commerce & Industry Insurance Co.
INSURER D:	
INSURER E:	

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY [X] COMMERCIAL GENERAL LIABILITY [X] CLAIMS MADE [ ] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [ ] PRO-JECT [ ] LOC	79479653	02/01/2003	02/01/2004	EACH OCCURRENCE FIRE DAMAGE (Any one fire) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 50,000 $ $ 1,000,000 $ 2,000,000 $ 2,000,000
B	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [X] HIRED AUTOS [X] NON-OWNED AUTOS [X] MCS-90 Endorsement	GA2837240	02/01/2003	02/01/2004	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
	GARAGE LIABILITY [ ] ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	$ $ $
A	EXCESS LIABILITY [ ] OCCUR [ ] CLAIMS MADE [ ] DEDUCTIBLE [ ] RETENTION $	79727031DCO	02/01/2003	02/01/2004	EACH OCCURRENCE AGGREGATE	$ 10,000,000 $ 10,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	WC9690711	02/01/2003	02/01/2004	[X] WC STATUTORY LIMITS [ ] OTHER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 100,000 $ 100,000 $ 500,000
A	OTHER Pollution Liability	37250705	02/01/2001	02/01/2004	$10,000,000 / $40,000,000	

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS
Pollution and Liability Retro Dates: 2/1/1990. Certificate holder is named as additional insured as their interest may appear.

CERTIFICATE HOLDER | [X] ADDITIONAL INSURED; INSURER LETTER: ___

Mr. Gerald Thompson
Environmental Assistant
Alaskan Copper Works
P. O. Box 3546
Seattle WA 98124-3546

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE
Lawrence Cushman Lawrence D. Cushman

ACORD 25-S (7/97)

WORLD RESOURCES COMPANY

Form FM-M01

RECYCLABLE MATERIAL PROFILE — EXHIBIT A

A. Generator Information: **Company I.D. Number: W2149A**

1. Generator: Alaskan Copper Works
2. Address: P. O. Box 3546, Seattle, WA 98124-3546
3. Contact: Mr. Gerald Thompson
   Title: Environmental Assistant
4. Material EPA Waste Code: F006
5. Generator's EPA I.D. Number: WAD980738546
6. Generator's State I.D. Number:

B. Recyclable Material Characteristics:

1. **Color(s):** Brown

2. **Odor:** [X] None [ ] Mild [ ] Strong
   Description of Odor:

3. **Moisture:** [X] Wet [ ] Damp [ ] Dry
   Percent Solids: 23.90

4. **pH** (EPA SW 846, Method 9040/9045)
   pH: 8.65

5. **Ignitability** (40 CFR §261.21)
   [X] Pass [ ] Fail

6. **Texture** similar to:
   [X] Wet Clay [ ] Dry Clay [ ] Sand [ ] Powder [ ] Other

7. **Appearance**
   [X] Homogeneous [ ] Bilayered [ ] Multilayered

8. **Organic Vapors**
   [X] Not Present (<1 ppm) [ ] Present
   If present, identify compounds and amount (ppm wet):
   [X] Pass [ ] Fail

9. **Free Liquids** (EPA SW 846, Method 9095) **Present:**
   [X] No [ ] Yes

10. **Debris Present**
    [X] No [ ] Yes

11. **Reactivity**
    [X] Not Reactive [ ] Reactive

12. **Radionuclides** (ASTM D5928-96)
    [X] Not Detected [ ] Detected

13. **Cyanide Gas HCN:**
    [X] Not Detected
    [ ] Detected _____ ppm

C. Analytical Data: (Content on a dry weight basis in ppm or %)

Constituent *		Content	Constituent *		Content
1. Aluminum [1]	Al	8179 ppm	19. Magnesium [2]	Mg	2376 ppm
2. Antimony [1]	Sb	28 ppm	20. Manganese [1]	Mn	6201 ppm
3. Arsenic [1]	As	83.0 ppm	21. Mercury [3]	Hg	21.00 ppm
4. Barium [1]	Ba	103 ppm	22. Nickel [1]	Ni	78877 ppm
5. Beryllium [1]	Be	< 10.00 ppm	23. Selenium [1]	Se	< 50.0 ppm
6. Bismuth [1]	Bi	16 ppm	24. Silver [1]	Ag	< 5 ppm
7. Cadmium [1]	Cd	< 10.0 ppm	25. Thallium [4]	Tl	< 25.0 ppm
8. Calcium [1]	Ca	12397 ppm	26. Tin [1]	Sn	< 100 ppm
9. Chloride [7]	Cl^-	0.08 %	27. Zinc [1]	Zn	924 ppm
10. Chromium, Hexavalent [5]	Cr^{+6}	4150.0 ppm			
11. Chromium, Total [1]	Cr	59848 ppm			
12. Cobalt [1]	Co	799 ppm			
13. Copper [1]	Cu	59357 ppm			
14. Cyanide, Amenable [6]	CN^-	0 ppm			
15. Cyanide, Total [6]	CN^-	< 42.0 ppm			
16. Fluoride [7]	F^-	0.47 %			
17. Iron [1]	Fe	267744 ppm			
18. Lead [1]	Pb	161 ppm			

*** Analytical Procedure References:**

1 EPA Method SW846 3050 / 6010 (Digestion / Analysis)
2 EPA Method SW846 3050 / 7450 or 6010 (Digestion / Analysis)
3 EPA Method SW846 3050 / Hydride generation (Digestion / Analysis)
4 EPA Method SW846 3050 / 7840 or 6010 (Digestion / Analysis)
5 EPA Method SW846 1311 or 3060 / 7196 (Extraction / Analysis)
6 EPA Method SW846 9010 (Distillation / Analysis)
7 HNO_3 or H_2O_2 / EPA Method SW846 9056 (Digestion / Analysis)

D. Certification:

I hereby certify that all information submitted in this profile is complete and accurate to the best of my knowledge and belief.

Signed: _____ Date: 05/07/2003

Title: Laboratory Manager

AZF004\\F21

 revised 09/20/00

WORLD RESOURCES COMPANY

8113 West Sherman Street
Tolleson, Arizona 85353-4025

Tel: 602.233.9166
Fax: 623.936.9164

February 19, 2003

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The following information is provided for use in your submittal:

Total Wet Tons Received:	9.80
Average Percent Solids:	24.96
Total Dry Tons:	2.44
Total Percentage Recycled:	100% less 75.04% moisture

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If you have any questions regarding this information, please contact me at (602) 233-9166, ext. 206.

Sincerely,
WORLD RESOURCES COMPANY

Jack Fahey
Director of Environmental, Health & Safety Affairs

WORLD RESOURCES COMPANY

Form FM-M01

RECYCLABLE MATERIAL PROFILE — EXHIBIT A

A. Generator Information: **Company I.D. Number: W2149A3**

1. Generator: Alaskan Copper Works
2. Address: P. O. Box 3546, Seattle, WA 98124-3546
3. Contact: Mr. Gerald Thompson
   Title: Environmental Assistant
4. Material EPA Waste Code: D007
5. Generator's EPA I.D. Number: WAD980738546
6. Generator's State I.D. Number:

B. Recyclable Material Characteristics:

1. **Color(s):** Brown

2. **Odor:** [X] None [ ] Mild [ ] Strong
   Description of Odor:

3. **Moisture:** [X] Wet [ ] Damp [ ] Dry
   Percent Solids: 85.60

4. **pH** (EPA SW 846, Method 9040/9045)
   pH: 8.83

5. **Ignitability** (40 CFR §261.21)
   [X] Pass [ ] Fail

6. **Texture** similar to:
   [X] Wet Clay [ ] Dry Clay [ ] Sand [ ] Powder [ ] Other

7. **Appearance**
   [X] Homogeneous [ ] Bilayered [ ] Multilayered

8. **Organic Vapors**
   [X] Not Present (<1 ppm) [ ] Present
   If present, identify compounds and amount (ppm wet):
   [X] Pass [ ] Fail

9. **Free Liquids** (EPA SW 846, Method 9095) **Present:** [X] No [ ] Yes

10. **Debris Present**
    [X] No [ ] Yes

11. **Reactivity**
    [X] Not Reactive [ ] Reactive

12. **Radionuclides** (ASTM D5928-96)
    [X] Not Detected [ ] Detected

13. **Cyanide Gas HCN:**
    [X] Not Detected
    [ ] Detected _____ ppm

C. Analytical Data: (Content on a dry weight basis in ppm or %)

Constituent *		Content	Constituent *		Content
1. Aluminum [1]	Al	31167 ppm	19. Magnesium [2]	Mg	454 ppm
2. Antimony [1]	Sb	28 ppm	20. Manganese [1]	Mn	7876 ppm
3. Arsenic [1]	As	68.0 ppm	21. Mercury [3]	Hg	< 6.00 ppm
4. Barium [1]	Ba	20 ppm	22. Nickel [1]	Ni	99121 ppm
5. Beryllium [1]	Be	< 10.00 ppm	23. Selenium [1]	Se	< 50.0 ppm
6. Bismuth [1]	Bi	103 ppm	24. Silver [1]	Ag	< 5 ppm
7. Cadmium [1]	Cd	< 10.0 ppm	25. Thallium [4]	Tl	< 25.0 ppm
8. Calcium [1]	Ca	395 ppm	26. Tin [1]	Sn	< 100 ppm
9. Chloride [7]	Cl^-	0.12 %	27. Zinc [1]	Zn	2425 ppm
10. Chromium, Hexavalent [5]	Cr^{+6}	120.0 ppm			
11. Chromium, Total [1]	Cr	120300 ppm			
12. Cobalt [1]	Co	1224 ppm			
13. Copper [1]	Cu	95099 ppm			
14. Cyanide, Amenable [6]	CN^-	0 ppm			
15. Cyanide, Total [6]	CN^-	< 12.0 ppm			
16. Fluoride [7]	F^-	0.02 %			
17. Iron [1]	Fe	539288 ppm			
18. Lead [1]	Pb	91 ppm			

*** Analytical Procedure References:**

1 EPA Method SW846 3050 / 6010 (Digestion / Analysis)
2 EPA Method SW846 3050 / 7450 or 6010 (Digestion / Analysis)
3 EPA Method SW846 3050 / Hydride generation (Digestion / Analysis)
4 EPA Method SW846 3050 / 7840 or 6010 (Digestion / Analysis)
5 EPA Method SW846 1311 or 3060 / 7196 (Extraction / Analysis)
6 EPA Method SW846 9010 (Distillation / Analysis)
7 HNO_3 or H_2O_2 / EPA Method SW846 9056 (Digestion / Analysis)

D. Certification:

I hereby certify that all information submitted in this profile is complete and accurate to the best of my knowledge and belief.

Signed: _____ Date: 05/07/2003

Title: Laboratory Manager

AZF004\\F21

 revised 09/20/00

D007

WORLD RESOURCES COMPANY

8113 West Sherman Street
Tolleson, Arizona 85353-4025

Tel: 602.233.9166
Fax: 623.936.9164

May 7, 2003

Mr. Gerald Thompson
Environmental Assistant
Alaskan Copper Works
P. O. Box 3546
Seattle, WA 98124-3546

Dear Mr. Thompson:

Enclosed for your records is a completed "RECYCLABLE MATERIAL PROFILE" (profile sheet) for the material generated at your facility. In accordance with the recycling Agreement with your company, World Resources Company (WRC) provides a completed profile sheet each contract year.

The concentration of metals reported on the profile sheet is the total concentration of each metal on a dry basis. The recyclable material is prepared for analysis by first grid-sampling and then drying the selected sample in the laboratory oven at 103°-105° centigrade in order to obtain a homogeneous dry sample (Standard Methods For The Examination of Water and Wastewater, 15th Edition, published by the American Public Health Association 1980, Method 209A "Total Residue at 103°-105° centigrade"). Therefore, these results are generally higher than the concentrations of your material as it leaves your facility. You should multiply these dry concentrations by the decimal form of your percent solids (i.e. 50.0% = 0.50) to obtain the concentration of your material as it leaves your plant.

WRC appreciates your business and looks forward to a long and mutually beneficial recycling relationship. Please feel free to call me with any questions you may have regarding the enclosed profile sheet. Thank you for your interest in recycling.

Sincerely,
World Resources Company

Jason Hensley
Laboratory Manager

AKC-0017091

5006

WORLD RESOURCES COMPANY

8113 West Sherman Street
Tolleson, Arizona 85353-4025

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